

Technical Program Schedule - Oral Presentations

Wednesday, October 26, 2005 - Keynote Speaker

Chairperson: Carolyn Wong

8:20 AM	Darleane Hoffman	University of California, Berkeley	The Crisis in Radiochemistry and Nuclear Chemistry Education
9:00 AM	<u>Mark Hart</u>	University of California, Lawrence Livermore National Laboratory	Radiation - What is Important? An Exhibit of Exempt Radioactive Items
9:25 AM	<u>Virgene IdekerMulligan</u> and Bob Shannon	Kaiser Analytical Management Services, Inc.	They Said It Couldn't Be Done...

Wednesday, October 26, 2005 - Standards & Standards Testing / QA / QC

Chairpersons: Bob Shannon & Matt Lardy

10:10 AM	<u>Donna M. Beals</u> , David E. McCurdy, and Daniel E. Montgomery	Savannah River National Lab	Opportunities for the Advancement of Science Through Participation in the ASTM International
10:35 AM	James Dahlgran, Mary Verwolf, David Sill, James Filliben, Gavin Spalletta, Kenneth G.W. Inn	RESL; NIST	Draft PT Uncertainty Acceptance Criteria Derived from Historical MAPEP Results
11:00 AM	Cheryl Antonio	Pacific Northwest National Laboratory	Lessons Learned: Incidents Can Bring Unwelcome Surprises
11:25 AM	<u>Natasha Dimova</u> , Bill Burnett and Henrieta Dulaiova	Environmental Radioactivity Measurement Facility, Department of Oceanography, Florida State University	Preparations of Radium Standards for Calibration of a Delayed Coincidence Counter System
11:40 AM	T. L. Rucker	Science Applications International Corporation	Application of Decision Levels (DLs) and Minimum Detectable Amounts (MDAs) – Will the Madness Ever End?

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Wednesday, October 26, 2005 - Mass Spectrometry

Chairpersons: Dave McCurdy & Cindy Conrado

1:20 PM	<u>S. S. Kannamkumarath</u> , G. R. Rao, B. D. Gonzalez, R. D. Myers, D. K. Hatmaker, and M. Thein	Oak Ridge Institute for Science and Education; Operational Safety Services Division Oak Ridge National Laboratory	An Improved Method for the Determination of ^{235}U and ^{238}U in Urine-By Inductively Coupled Plasma-Mass Spectrometry
1:45 PM	Julian Wills, Meike Hamester, Chuck Douthitt	Thermo Electron	Application of extended dynamic range Sector Field ICP-MS to the analysis of high uranium matrices
2:10 PM	<u>Dominic Larivière</u> , Stephen Kiser, Chunsheng Li, Vladimir Epov, R. Jack Cornett	Radiation Protection Bureau, Health Canada; Trent University	New and fast analytical protocol for the determination of actinides in air filter samples by HPLC-ICP-MS
2:35 PM	<u>Bogen, K.T.</u> , T.F. Hamilton, T.A. Brown, A.A. Marchetti, and R.E. Marinelli	University of California, Lawrence Livermore National Laboratory	Age-related trend in elevated plutonium-239 measured by AMS in urine samples collected in 1998-2003 from Enewetak residents and Rongelap resettlement workers

Technical Program Schedule - Oral Presentations

Thursday, October 27, 2005 - Bioassay: In Vitro

Chairpersons: Gary Kramer & Sandi Fisher

8:00 AM	Evan Crawford and Jerry LaRosa	Yale University; NIST	What a Coincidence-Developing a Rapid LSC Screening Method for ^{90}Sr Contamination in Urine
8:25 AM	<u>John S. Morton</u> , Robert P. Wills, Robert D. Timm, James B. Westmoreland	General Engineering Labs	On-site Collection, Concentration and Separation of Nuclide Specific Analytes in Urine
8:50 AM	<u>D. J. Fauth</u> and T. R. La Bone	Westinghouse Savannah River Company	Validation Process for Bioassay MDCs
9:15 AM	<u>Bogen, K.T.</u> , D.P. Hickman, T.F. Hamilton, T.A. Brown, C.C. Cox, A.A. Marchetti and R.E. Martinelli	University of California, Lawrence Livermore National Laboratory	AMS Analysis of ^{239}Pu in Archived Occupational Samples

Thursday, October 27, 2005 - Bioassay: In Vivo

Chairpersons: Stan Morton & Ilham AlMahamid

10:00 AM	<u>Gary H. Kramer</u> and Barry M. Hauck	Human Monitoring Laboratory, Radiation Protection Bureau, Health Canada	The Human Monitoring Laboratory's new whole body counter, its comparison with the previous system and an extension of the calibration using Monte Carlo simulations
10:25 AM	Matthew Mille and Svetlana Nour	University of Maryland; NIST	Getting into the BOMAB Head
10:50 AM	<u>Rachel A. Zeman</u> , <u>Sandra K. Fisher</u> , David P. Hickman	University of California, Lawrence Livermore National Laboratory	The Heart Must be Removed Prior to In Vivo Lung Counting to Achieve Optimum Detection Efficiency of Low Energy Gammas
11:15 AM	<u>Malcolm Ennis</u> , Andy Baker and Doug Van Cleef	Los Alamos National Laboratory; Advanced Measurement Technology, Inc	High Resolution HPGe Lung Counting Without Liquid Nitrogen
11:40 AM	<u>Gary H. Kramer</u> and Barry M. Hauck	Human Monitoring Laboratory, Radiation Protection Bureau, Health Canada	The sliced BOMAB phantom: a new variant for intercomparisons.

Technical Program Schedule - Oral Presentations

Thursday, October 27, 2005 - Environmental Measurements

Chairpersons: Bahman Parsa & Shiyamalie Ruberu

1:20 PM	Mark A. Verdoorn, Dennis W. McBride	Idaho National Laboratory	Development of Autonomous Unmanned Vehicles for Radiation Surveys and Sampling
1:45 PM	<u>Abdul Khaliq</u> , Richard Pietz, and Richard Lanyon	Metropolitan Water Reclamation District of Greater Chicago	Radon Monitoring at the Metropolitan Water Reclamation District of Greater Chicago
2:10 PM	<u>Sherrod L. Maxwell</u>	Westinghouse Savannah River Co.	Rapid Emergency Method for Actinides and Sr-89/90 in Water Samples
2:35 PM	<u>Tosheva Z.P.</u> , Kies A.F., Hofmann	University of Luxembourg	Investigation of radioactivity in waters in Luxemburg by follow-up radiochemical method

Technical Program Schedule - Oral Presentations

Friday, October 28, 2005 - Radiometric Methods & Procedures

Chairpersons: Barry Stewart & Donna Beals

8:00 AM	<u>Cecilia C. DiPrete</u> , Timothy A. DeVol, Christopher D. Theisen, and David P. DiPrete	Savannah River National Laboratory; Clemson University	Effect of Quench on Alpha/Beta Pulse Shape Discrimination of Liquid Scintillation Cocktails
8:25 AM	Hiromu Kurosaki, Payam Motabar, and Ken Inn	National Institute of Standards and Technology; University of Maryland	Magic or Science? ^{90}Sr efficiency calibration data reduction
8:50 AM	J. La Rosa, I. Outola, E. Crawford	Ionizing Radiation Division, National Institute of Standards and Technology	Verification of ^{237}Np activity concentration in a mixed radionuclides solution: recent experiences in chemical separation and measurement by alpha spectrometry
9:15 AM	<u>Shiyamalie R. Ruberu</u> , Yun-Gang Liu, and S. Kusum Perera	California Department of Health Services	Occurrence and Distribution of ^{210}Pb and ^{210}Po in California Groundwater Determined by a Single Sample Analysis Method

Friday, October 28, 2005 - Radiometric Methods & Procedures

Chairpersons: Ken Inn & Ann Mullins

10:00 AM	Payam Motabar, Svetlana Nour and Kenneth G. W. Inn	National Institute of Standards and Technology	Effect of Energy on Alpha-particle Counting Efficiency
10:25 AM	M. Sadeghi, P. Van den Winkel, H. Afarideh and M. Haji-Saeid, L. De Vis, R. Waegeneer, A. De Schriijver,	Islamic Azad University; Center for Agriculture & Medicine (NRCAM); VUB- Cyclotron	Centrifugal electrodisolution system for irradiated rhodium target material used for the cyclotron ^{103}Pd production
10:50 AM	<u>Barry Stewart</u>	Carlsbad Environmental Monitoring and Research Center	Use of Thin Films to Control Recoil Contamination of Alpha Spectrometry Detectors
11:15 AM	<u>Edward Hall</u> and Kenneth G.W. Inn	University of Rochester: NIST	<u>Massive Impact</u> . The Use of Collodion Films to Shield Solid State Alpha Detectors from Heavy Ion Recoils
11:40 AM	<u>Steven Wheland</u> and Matt Lardy	STL Richland	Evaluation of Quench Corrected Liquid Scintillation Counting Instrument Blanks to Reduce False Positive Rate

Technical Program Schedule - Oral Presentations

Friday, October 28, 2005 - Keynote Speaker

Chairperson: **Bryan Bandong**

1:00 PM	<u>Ken Moody</u>	University of California, Lawrence Livermore National Laboratory	Discovery of Superheavy Elements
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Friday, October 28, 2005 - Homeland Security / Emergency Response

Chairpersons: **Bryan Bandong & Rod Melgard**

2:55 PM	<u>Joel Swanson</u>	University of California, Lawrence Livermore National Laboratory	The Radiological Assistance Program
3:20 PM	Donna Beals and Doug Van Cleef	Savannah River National Lab; ORTEC	Using Existing Field Radiological Instrumentation to Influence Emergency Response Decisions
3:45 PM	<u>Gary H. Kramer</u>	Human Monitoring Laboratory, Radiation Protection Bureau, Health Canada	Anatomy of an emergency exercise: EXFO.
4:10 PM	Iisa Outola, Svetlana Nour, Hiromu Kurosaki, Jerry LaRosa, Kenneth G.W. Inn and Lynn Albin	NIST, MS 8462; Washington State Department of Public Health	Improvement in Radioassay Emergency Response Capability: NRIP'05
4:35 PM	<u>Carolyn Wong</u> , Robb Hadley, Mark Johnson, Dann Haynes	University of California, Lawrence Livermore National Laboratory	The Livermore HOTSPOT Mobile Laboratory